

Title (en)
IMAGE FORMING APPARATUS

Title (de)
BILDERZEUGUNGSVORRICHTUNG

Title (fr)
APPAREIL DE FORMATION D'IMAGE

Publication
EP 3062159 B1 20210113 (EN)

Application
EP 16154423 A 20160205

Priority
JP 2015038381 A 20150227

Abstract (en)
[origin: EP3062159A2] An image forming apparatus includes: an image bearing member; a developer carrying member; an electroconductive regulating member; and a bias applying portion for applying, to the regulating member, a bias of the same polarity as a polarity of the developer on a surface of the developer carrying member at least during a developing operation. The developer remaining on the surface of the image bearing member after transfer of a developer image is transferred is collected by the developer carrying member. At timing when the developer carrying member is driven in a period other than during the developing operation, a potential difference between the regulating member and the developer carrying member is made zero or a voltage which is different from a voltage applied to the developer carrying member toward a side of a polarity opposite the polarity of the developer is applied to the regulating member.

IPC 8 full level
G03G 15/06 (2006.01); **G03G 15/08** (2006.01); **G03G 21/00** (2006.01)

CPC (source: CN EP US)
G03G 15/065 (2013.01 - CN EP US); **G03G 15/0812** (2013.01 - CN EP US); **G03G 21/0064** (2013.01 - CN EP US)

Citation (examination)

- EP 2042942 A1 20090401 - OKI DATA KK [JP]
- US 2010303486 A1 20101202 - SHIBATA MASAHIRO [JP], et al
- JP 2004191766 A 20040708 - CANON KK

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3062159 A2 20160831; EP 3062159 A3 20161228; EP 3062159 B1 20210113; CN 105929658 A 20160907; CN 105929658 B 20191011; JP 2016161660 A 20160905; JP 5968480 B1 20160810; KR 102010229 B1 20190813; KR 20160105338 A 20160906; US 2016252841 A1 20160901; US 9835973 B2 20171205

DOCDB simple family (application)
EP 16154423 A 20160205; CN 201610103873 A 20160226; JP 2015038381 A 20150227; KR 20160023011 A 20160226; US 201615050661 A 20160223